

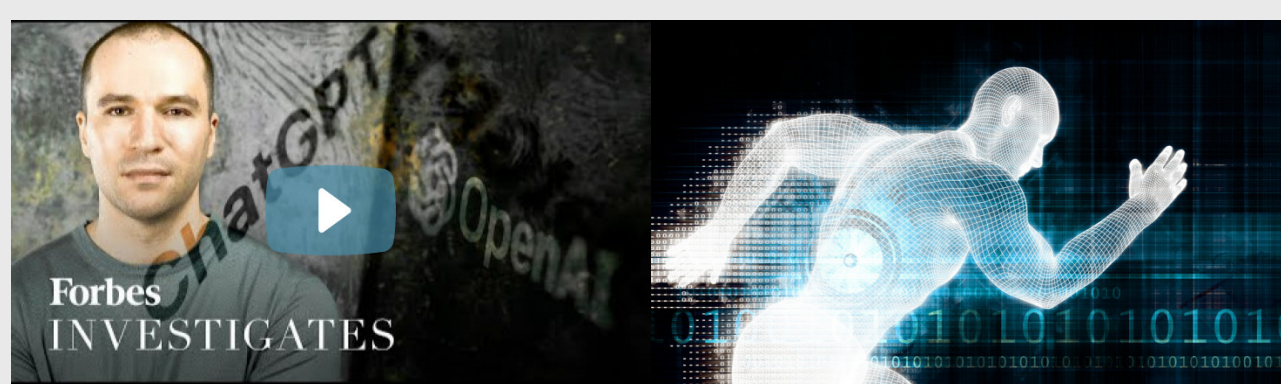
The World's most Innovative Companies of 2023

Fast Company's annual ranking of the world's most innovative companies covers 54 industries and sectors, from advertising to workplace.

fastcompany.com



ARTIFICIAL INTELLIGENCE



Generative AI Is About To Reset Everything, And, Yes It Will Change Your Life

Whether you like it or not, generative AI like ChatGPT and Stable Diffusion are about to change not only how you work, but how the content you consume is produced.

youtube.com

The AI Arms Race Is On. Start Worrying

As ChatGPT and Dall-E take off, tech companies like Google, Meta and Microsoft are moving fast on AI. That could prove catastrophic

time.com



ENERGY



Fusion power: how close are we?

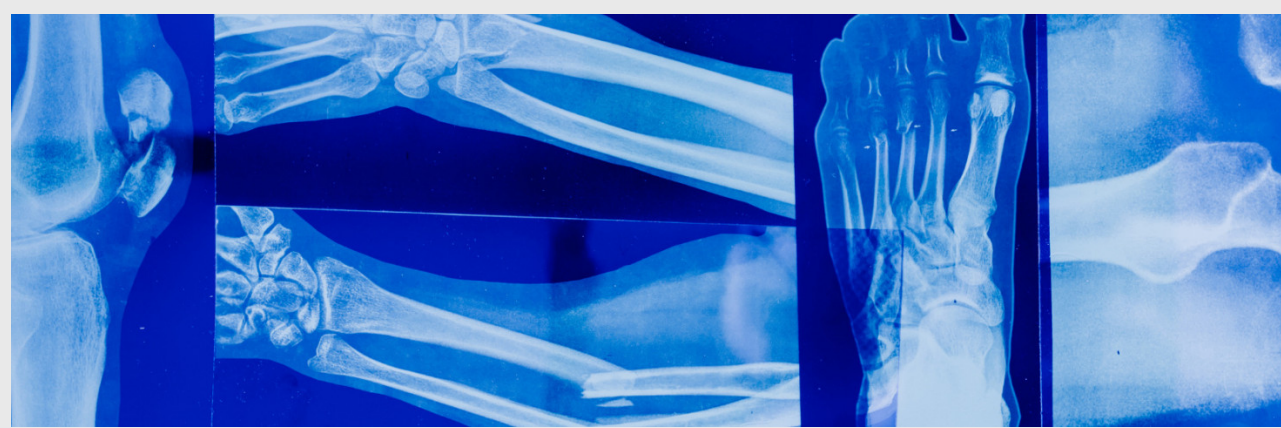
For the first time, US scientists have achieved a fusion reaction with net energy gain. But the dream of limitless zero-carbon energy is still a long way from reality. The FT's Simon Mundy meets scientists and investors in the UK, France and US, to see how close we really are to commercial fusion...

youtube.com

Hidden hydrogen: Earth may hold vast stores of a renewable, carbon-free fuel

IN THE SHADE of a mango tree, Mamadou Ngulo Konaré recounted the legendary event of his childhood. In 1987, well diggers had come to his village of Bourakébougou, Mali, to drill for water, but had given up on one dry borehole at a depth of 108 meters.

science.org



Deep-learning tool boosts X-ray imaging resolution and hydrogen fuel cell performance

Researchers from UNSW Sydney have developed an algorithm that produces high-resolution modeled images from lower-resolution micro X-ray computerized tomography (CT).

techxplore.com



AEROSPACE



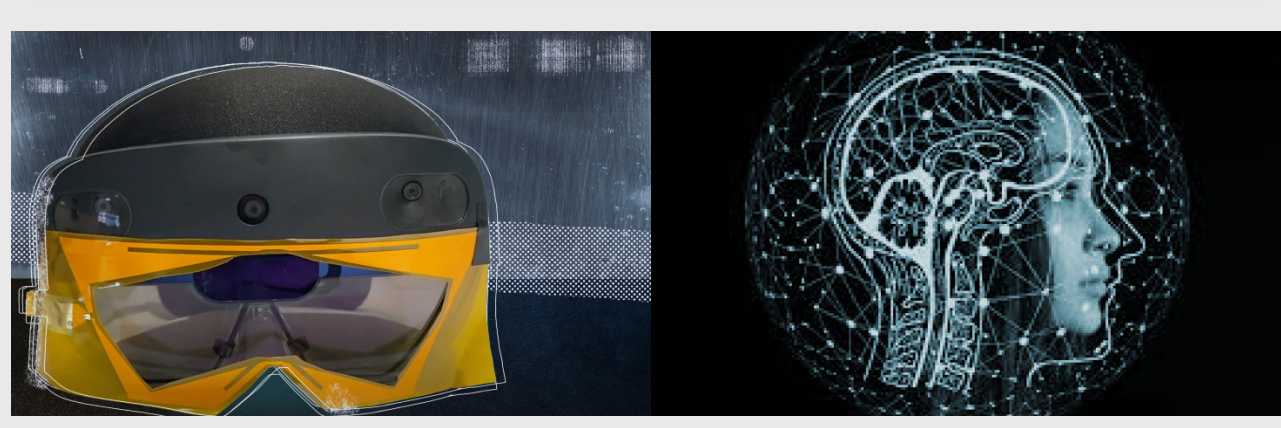
Language, schmanguage: NASA's generative AI builds spaceships

When NASA's balloon-borne exoplanet-observing telescope EXoplanet Climate Infrared Telescope (EXCITE) takes to the skies this fall it'll be doing so with a scaffold and support struts with a unique feature: they were designed by an artificial intelligence algorithm.

theregister.com



ARTIFICIAL SENSING



Augmented reality headset enables users to see hidden objects

MIT researchers have built an augmented reality headset that gives the wearer X-ray vision. The headset combines computer vision and wireless perception to automatically locate a specific item that is hidden from view, perhaps inside a box or under a pile, and then guide the user to retrieve it.

news.mit.edu

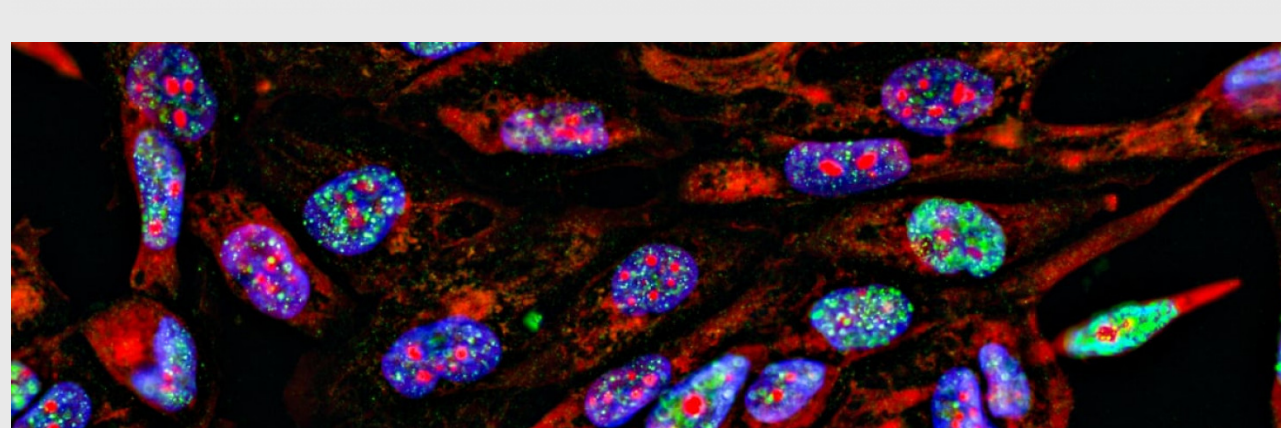
Brain implant startup backed by Bezos and Gates is testing mind-controlled computing on humans

In a Brooklyn lab stuffed with 3D printers and a makeshift pickleball court, employees at a brain interface startup called Synchron are working on technology designed to transform daily life for people with paralysis.

cnc.com



LIFE SCIENCES



'Bond villain' DNA could transform cancer treatment, scientists say

Scientists have pinpointed pieces of DNA which, they say, act like Bond villains in the way they help cancers spread. These microscopic agents have also been shown to be responsible for helping tumours gain resistance to anti-cancer drugs.

theguardian.com



IN THE LAB



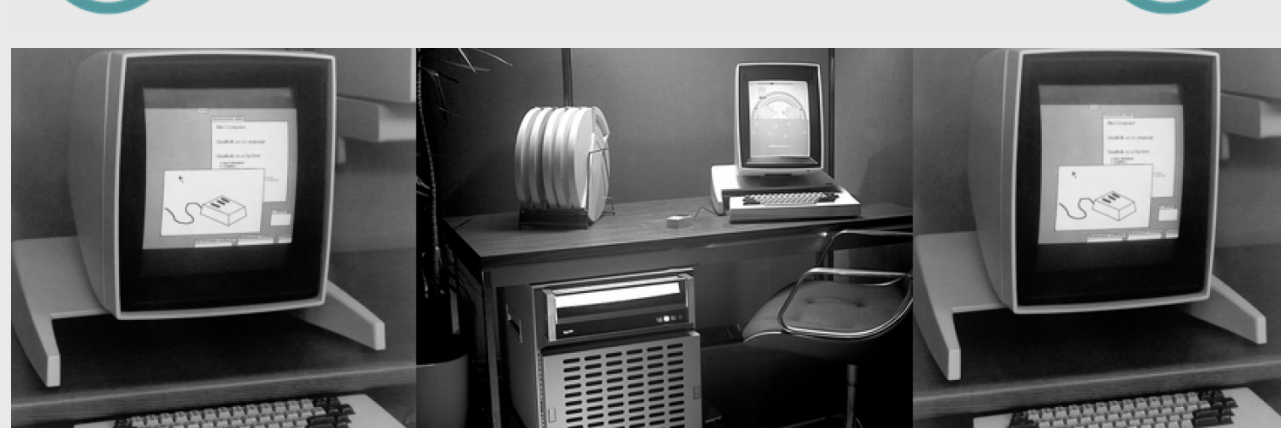
Researchers Discover a More Flexible Approach to Machine Learning

While the algorithms at the heart of traditional networks are set during training, when these systems are fed realms of data to calibrate the best values for their weights, liquid neural nets are more adaptable.

quantamagazine.org



AFTER HOURS



50 Years Later, We're Still Living in the Xerox Alto's World

I'm sitting in front of a computer, looking at its graphical user interface with overlapping windows on a high-resolution screen. I interact with the computer by pointing and clicking with a mouse and typing on a keyboard.

spectrum.ieee.org



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